



Material Content Data Sheet



Sales Product Name		IDFW40E65D1E		Issued		1. August 2018		
MA#		MA001601534						
Package		PG-HSIP247-3-1		Weight*		5785.47 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	0.970	0.02	0.02	168	168
leadframe	inorganic material	phosphorus	7723-14-0	0.164	0.00		28	
	non noble metal	iron	7439-89-6	0.545	0.01		94	
	non noble metal	copper	7440-50-8	544.561	9.41	9.42	94126	94248
	non noble metal	aluminium	7429-90-5	8.151	0.14	0.14	1409	1409
wire	inorganic material	zinc oxide	1314-13-2	0.138	0.00		24	
encapsulation	plastics	silicone resin	-	0.311	0.01		54	
	inorganic material	alumina	1344-28-1	3.004	0.05		519	
	organic material	carbon black	1333-86-4	21.999	0.38		3803	
	plastics	epoxy resin	-	417.989	7.22		72248	
	inorganic material	silicon dioxide	60676-86-0	1759.953	30.42	38.08	304202	380850
leadfinish	non noble metal	tin	7440-31-5	16.291	0.28	0.28	2816	2816
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.456	0.01	0.01	79	80
solder	non noble metal	antimony	7440-36-0	0.085	0.00		15	
	noble metal	silver	7440-22-4	0.214	0.00		37	
	non noble metal	tin	7440-31-5	0.555	0.01	0.01	96	148
heatspreader	inorganic material	phosphorus	7723-14-0	0.903	0.02		156	
	non noble metal	iron	7439-89-6	3.010	0.05		520	
	non noble metal	copper	7440-50-8	3006.169	51.97	52.04	519605	520281
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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